# Photographic Science and Engineering

## Volume 23, Numbers 1–6


| | |
|---|---|
| January/February (1) | 1–54 |
| March/April (2) | 55–122 |
| May/June (3) | 123–182 |
| July/August (4) | 183–256 |
| September/October (5) | 257–322 |
| November/December (6) | 323–380 |


## TITLE INDEX


Ag Clusters on AgBr Microcrystals (Photographic Latent Image) Produced by X Rays or by Exposure to Light at Low Temperatures—An Electrochemical Investigation
**Gian Burge,** 11

A New Process of Photoreticulation of Polymers
**Jean-Luc Decout, Alain Lablache-Combier, and Claude Loucheux,** 309

A Novel Class of Photographic Developing Agents: 2,5-Bis(secondary amino)-1,3,4-thiadiazoles
**H. W. Altland, G. E. Smith, I. A. Olivares, and S. W. Cowan,** 257

A Photopolymer—The Direct Way to Polyimide Patterns
**R. Rubner, H. Ahne, E. Kuhn, and G. Kolodziej,** 303

A Study of Photochemical Reactions in a Dichromated Photoresist*
**P. Datta and B. R. Soller,** 203

A Super Fine Negative Type Photoresist Obtained by a New Preparative Method
**Masao Kato, Hisashi Nakane,** 207

Basic Luminescence Parameters for Silver Halide Crystals and Photographic Emulsions. 1.77 K Luminescence
**L. F. Costa and D. C. Harrington,** 283

Boron Multidionate Acceptors in Electrophotography
**James M. Halm and John H. DeLorme,** 252

Characterization of Riston T-193 Photoresist for Use on Selectively Plated Bilevel Circuits
**C. C. Shiflett,** 164

Charge Exchange at a Metal Hydrocarbon Fluid Interface: A Mechanism in Photoactive Pigment Electrography
**Y. C. Chang, R. O. Loutfy, G. C. Hartmann, C. C. Yang, and J. Josefowicz,** 357

Concentration Specks and Development Centers
**J. W. Mitchell,** 1

Crosslinking of Polymers with Irradiating Rh, La X Ray-Effect of Active Groups and a Heavy Atom on Crosslinking
**Tsuguo Yamaoka, Takahiro Tsunoda, and Yoshitaka Goto,** 196

Crystalline Matrix Photoimaging
**W. R. Hertler, P. J. McCartin, J. R. Merrill, G. R. Nacci, and W. J. Nebe,** 297

Custom Color Proofs by Photopolymerization for Thermal Transfer Printing on Textiles
**John W. Long,** 319

Cycle Distribution of Recycled Electrographic Toner
**L. Marks, G. Hartmann, and H. Sonnenberg,** 367

Decoration of Sensitivity Specks
**K. Starbova and V. Platikanova,** 107

Developability of Silver Bromide Crystals Produced by the Action of Free Radicals
**B. M. E. van der Hoff and W. R. Azzam,** 353

Diffraction Efficiency of the Thermoplastic-Photoconductor Device for Holographic Recording
**J. W. Lin and T. C. Lee,** 213

Discrimination in Development
**P. J. Hillson,** 38

Dye-Sensitized Photopolymerization: Activation by Trialkylbenzylstannanes
**David F. Eaton,** 150

Electrochemical Study on Desensitizing Dyes
**T. Abe and T. Murakami,** 71

Electrophotographic Characteristics of PVK/PVK-TNF/TNF-PMG Systems
**Z. Okuno, K. Tanikawa, and M. Hatano,** 362

Elimination of Oxygen Inhibition in Photopolymerization
**C. Decker, J. Faure, M. Fizet, and L. Rychla,** 137

Elimination of Solarization by the Addition of Halogen Acceptors
**Jose A. Aznarez,** 248

Ellipsometric Studies of Gelatin Adsorption at the Silver Bromide-Solution Interface
**O. B. Bangham, T. J. Maternaghan, and R. H. Ottewill,** 45

Evaporated Layers of Silver Halides for the Study of Primary Processes of Photography
**P. Junod, H. Hediger, B. Kilchor, and R. Steiger,** 266

Flash Photolysis of Benzoin and Benzophenone Containing Systems
**W. Schnabel,** 154

Modulation of Biimidazole-Leucodye Photochemical Reaction by Photopolymerization
**Rolf Dessauer and Catharine Looney,** 287

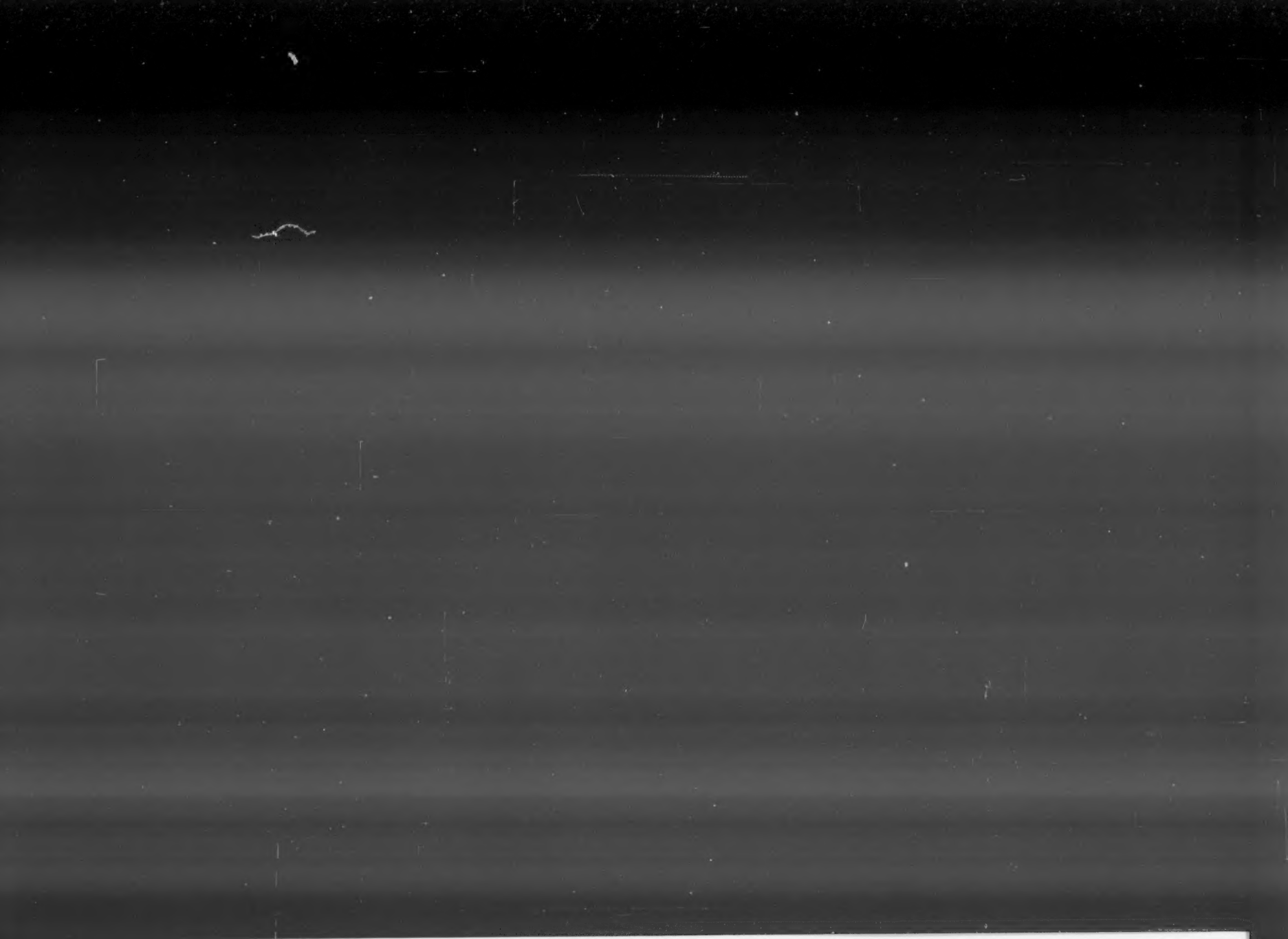
MTF Evaluation for Optical and Electron-Beam Lithography
**Makoto Nakase and Yasuo Matsumoto,** 215

New Aspects of Photochromism in Bulk Polymers .
**Claus D. Eisenbach,** 183

On the Electrokinetic Properties of Positively Charged Toner Dispersions and Electrostatic Image Development
**H. Halfdanarson and K. Hauffe,** 27

Optical Absorption Studies of the Growth of Microcrystals in Nascent Suspensions: (II) Nucleation of Silver Chloride from Aqueous Solutions
**T. Tanaka, T. Matsubara, and H. Hada,** 118
Photoactive Catalyst Used in Light Induced Photocuring of Coating Systems
**V. D. McGinniss,** 124
Photoconductive Sensitivity and the Temperature Dependence of Decay Time for Dye Sensitized CdS and Dye Sensitized Heavy Cu-doped CdS
**H. Nakatsui and Y. Hishiki,** 76
Photoelectrochemical Study of Supersensitization with AgCl Crystal
**T. Iwasaki, S. Sumi, A. Fujishima, and K. Honda,** 17
Photographic Speed of Solid-State Sensor Arrays
**F. Moser, R. K. Ahrenkiel, and B. C. Burkey,** 261
Photo-induced Ionic Polymerizations
**Koichiro Hayashi, Masahiro Irie and Yukio Yamamoto,** 193
Photoinitiated Cationic Polymerization by Photosensitization of Onium Salts
**S. Peter Pappas and J. H. Jilek,** 140
Photopolymer in Holographic Real-Time Fluid Flow Measurement
**L. M. Perry and R. L. Kurtz,** 175
Photoreactive Polyesters with Unusual Thermal Properties: Synthesis, Structure-Property Relationships, and Applications
**M. A. Sandhu, D. J. Savage, and T. W. Martin,** 159
Physical Properties of Photopolymers—A Biaxial Stress-Strain Text
**Catherine T. Chang,** 311
Pictorial Electrophotography
**F. Bestenreiner,** 93
Reduction Sensitization of a 1.08 $\mu$m AgBr Octahedral Emulsion
**Susan S. Collier,** 113
Replication of Very High-Density Video Disc Master Recordings Via Contact Printing
**D. G. Howe, H. T. Thomas, and J. J. Wrobel,** 370
Reversible Viscosity Change of Photochromic Spirobenzopyran Copolymer Solutions*
**Masahiro Irie and Koichiro Hayashi and George Smets,** 191
Scanned Laser Marking of Metallic and Organic Films
**J. M. O'Reilly, R. A. Mosher, and W. L. Goffe,** 314
*Short Communication*
Some Factors Limiting Bit Capacity in Electrophotography
**W. Brouwer, E. O'Neill, and P. Zavracky,** 378
Special Characteristics of Magnetic Brush Development: A Review
**J. Van Engeland,** 86
Spectral Sensitization and Electronic Structure of Organic Dyes
**Siegfried Dähne,** 219
Spectrally Sensitized Decomposition of Poly (Methyl Isopropenyl Ketone)-Novel Deep UV Resists
**M. Tsuda, Y. Nakamura, S. Oikawa, H. Nagata, A. Yokota, H. Nakane, T. Tsumori, Y. Nakane, and T. Mifune,** 290
Studies of Supersensitization by Electron Spin Resonance and Dember Photocurrent Measurements
**Tadaaki Tani, Yasuhisa Sano, and Mitsuo Saito,** 240
Study of the Mechanism of the Photocoloration of Photochromic Spiropyrans
**Vladimir A. Kuzmin, Yakov Malkin, and Ed. R. Zakhs,** 20
Studies of Mechanism of Sensitization by Hydroxy-tetraazaindenes in Relation to Their Adsorption to AgBr Grains
**Tadaaki Tani and Mitsuo Saito,** 323
Supersensitization by Hydroxy-Tetraazaindenes
**T. Tani,** 55
The Effects of Carbon in UV Curing
**Y. C. Chang,** 301
The Growth of AgCl Crystals in Gelatin Solution
**R. W. Strong and J. S. Wey,** 344
The Luminescence of Silver Chloride—Theory and Measurement
**A. N. Latyshev, M. A. Kushnir, and L. B. Antacanova,** 338
The Mechanism of Crosslink Formation in Solid Polyvinylcinnamate and Related Photopolymers
**A. Reiser and P. L. Egerton,** 144
The Photographic Process as Photostimulated Phase Formation
**J. Malinowski,** 99
The Photopolymer Industry in Japan
**T. Tsunoda,** 172
Theoretical Research on the Initial Stage of Photodecomposition of Aromatic Diazo Compound. II—p-Diazoquinone
**M. Tsuda and S. Oikawa,** 177
Transient Absorption Spectra of Sulfur and Gold Adsorbed to Silver Bromide Microcrystals in Gelatin; Mechanisms of Latent Image Formation and Decay
**S. H.Ehrlich,** 348
Triboelectric Effects of $Li_2O$-Doped Zinc Oxide
**H. Halfdanarson and K. Hauffe,** 33
Use of Molecular Orbital Calculations in the Design of Spectral Sensitizing Dyes
**R. A. Lee and D. L. Wilhite,** 333
Variations in Equilibrium Electrode Potential of Sensitivity Centers During Aging of Photographic Emulsions and Their Mechanistic Implications
**Wang Su-E, Tsui Hsueh-fu, Wu Chieh, and Liu Tun,** 341
Water-Soluble, Reciprocity-Law-Failing Photoresist Composed of Poly(acrylamide-co-diacetone acrylamide) and Water-Soluble Bisazide
**T. Kohashi, M. Akagi, S. Nonogaki, M. Hashimoto, N. Hayashi, and Y. Tomita,** 168
Wavelength and Coherence Effects on the Performance of Real Optical Projection Systems
**A. Offner,** 374
ZnCdS:(Cu + Ag) Binder Layer for Electrophotography
**P. K. C. Pillai, C. K. Pillai, and R. G. Mendiratta,** 84

# AUTHOR INDEX

**Abe, T., and T. Murakami**
Electrochemical Study on Desensitizing Dyes, 71
**Ahne, H.** *See* Rubner, R., et al., 303
**Ahrenkiel, R. K.** *See* Moser, F., et al., 261
**Akagi, M.** *See* Kohashi, T., et al., 168
**Altland, H. W., Smith, G. E., Olivares, I. A., and Cowan, S. W.**
A Novel Class of Photographic Developing Agents: 2,5-Bis(secondary amino)-1,3,4-thiadiazoles, 257
**Antacanova, L. B.** *See* Latyshev, A. N., et al., 338
**Aznarez, J. A.**
Elimination of Solarization by the Addition of Halogen Acceptors, 248
**Azzam, W. R.** *See* van der Hoff, B. M. E., 353
**Bangham, O. B., Maternaghan, T. J., and Ottewill, R. H.**
Ellipsometric Studies of Gelatin Adsorption at the Silver Bromide-Solution Interface, 45
**Bestenreiner, F.**
Pictorial Electrophotography, 93
**Brouwer, W., O'Neill, E., and Zavracky, P.**
Short Communication—Some Factors Limiting Bit Capacity in Electrophotography, 378
**Burge, G.**
Ag Clusters on AgBr Microcrystals (Photographic Latent Image) Produced by X Rays or by Exposure to Light at Low Temperature—An Electrochemical Investigation, 11
**Burkey, B. C.** *See* Moser, F., et al., 261
**Chang, C. T.**
Physical Properties of Photopolymers—A Biaxial Stress-Strain Text, 311
**Chang, Y. C.**
The Effects of Carbon In UV Curing, 301
**Chang, Y. C., Loutfy, R. O., Hartmann, G. C., Yang, C. C., and Josefowicz, J.**
Charge Exchange at a Metal-Hydrocarbon Fluid Interface: A Mechanism in Photoactive Pigment Electrography, 357
**Chieh, W.** *See* Su-e, W., et al., 341
**Collier, S. S.**
Reduction Sensitization of a 1.08 μm AgBr Octahedral Emulsion, 113
**Costa, L. F., and Harrington, D.C.**
Basic Luminescence Parameters for Silver Halide Crystals and Photographic Emulsions. 1.77 K Luminescence, 283
**Cowan, S. W.** *See* Altland, H. W., et al., 257
**Dähne, S.**
Spectral Sensitization and Electronic Structure of Organic Dyes, 219
**Datta, P., and Soller, B. R.**
A Study of Photochemical Reactions in a Dichromated Photoresist, 203
**Decker, C., Faure, J., Fizet, M., and Rychia, L.**
Elimination of Oxygen Inhibition in Photopolymerization, 137
**Decout, J-L., Lablache-Combier, A., and Loucheux, C.**
A New Process of Photoreticulation of Polymers, 309
**DeLorme, J. H.** *See* Halm, J. M., et al., 252
**Dessauer, R., and Looney, C.**
Modulation of Biimidazole-Leucodye Photochemical Reaction by Photopolymerization, 287
**Eaton, D. F.**
Dye-Sensitized Photopolymerization: Activation by Trialkylbenzylstannanes, 150
**Egerton, P. L.** *See* Reiser, A., 144
**Ehrlich, S. H.**
Transient Absorption Spectra of Sulfur and Gold Adsorbed to Silver Bromide Microcrystals in Gelatin; Mechanisms of Latent Image Formation and Decay, 348
**Eisenbach, C. D.**
New Aspects of Photochromism in Bulk Polymers, 183
**Faure, J.** *See* Decker, C., et al., 137
**Fizet, M.** *See* Decker, C., et al., 137
**Fujishima, A.** *See* Iwasaki, et al., 17
**Goffe, M. L.** *See* O'Reilly, J. M., et al., 314
**Goto, Y.** *See* Yamaoka, T., et al., 196
**Hada, H.** *See* Tanaka, T., et al., 118
**Halfdanarson, H., and Hauffe, K.**
On the Electrokinetic Properties of Positively Charged Toner Dispersions and Electrostatic Image Development, 27
**Halfdanarson, H., and Hauffe, K.**
Triboelectric Effects of $Li_2O$-Doped Zinc Oxide, 33
**Halm, J. M., and DeLorme, J. H.**
Boron Multidionate Acceptors in Electrophotography, 252
**Harrington, D. C.** *See* Costa, L. F., 283
**Hartmann, G.** *See* Marks, L., et al., 367
**Hartmann, G. C.** *See* Chang, Y. C., et al., 357
**Hashimoto, M.** *See* Kohashi, T., et al., 168
**Hatano, M.** *See* Okuno, Z., et al., 362
**Hauffe, K.** *See* Halfdanarson, H., 27
**Hauffe, K.** *See* Halfdanarson, H., 33
**Hayashi, K., Irie, M., and Yamamoto, Y.**
Photoinduced Ionic Polymerizations, 193
**Hayashi, K.** *See* Irie, M., et al., 191
**Hayashi, N.** *See* Kohashi, T., et al., 168
**Hediger, H.** *See* Junod, P., et al., 266
**Hertler, W. R., McCartin, P. J., Merrill, J. R., Nacci, G. R., and Nebe, W. J.**
Crystalline Matrix Photoimaging, 297
**Hillson, P. J.**
Discrimination in Development, 38
**Hishiki, Y.** *See* Nakatsui, H., 76
**Honda, K.** *See* Iwasaki, T., et al., 17
**Howe, D. G., Thomas, H. T., and Wrobel, J. J.**
Replication of Very High-Density Video Disc Master Recordings via Contact Printing, 370
**Hsueh-fu, T.** *See* Su-e, W., et al., 341
**Irie, M., Hayashi, K., and Smets, G.**
Reversible Viscosity Change of Photochromic Spirobenzopyran Copolymer Solutions, 191
**Irie, M.** *See* Hayashi, K., et al., 193
**Iwasaki, T., Sumi, S., Fujishima, A., and Honda, K.**
Photoelectrochemical Study of Supersensitization with AgCl Crystal, 17
**Jilek, J. H.** *See* Pappas, S. P., 140
**Josefowicz, J.** *See* Chang, Y. C., et al., 357
**Junod, P., Hediger, H., Kilchor, B., and Steiger, R.**
Evaporated Layers of Silver Halides for the Study of Primary Processes of Photography, 266
**Kato, M., and Nakane, H.**
A Super Fine Negative Type Photoresist Obtained by a New Preparative Method, 207
**Kilchor, B.** *See* Junod, P., et al., 266
**Kohashi, T., Akagi, M., Nonogaki, S., Hashimoto, M., Hayashi, N., and Tomita, Y.**
Water-Soluble, Reciprocity-Low-Failing Photoresist Composed of Poly(acrylamide-codiectone acrylamide) and Water-Soluble Bisazide, 168
**Kolodziej, G.** *See* Rubner, R., et al., 303
**Kuhn, E.** *See* Rubner, R., et al., 303
**Kurtz, R. L.** *See* Perry, L. M., 175
**Kushnir, M. A.** *See* Latyshev, A. N., et al., 338

**Kuzmin, V. A., Malkin, Y., and Zakhs, E. R.**
Study of the Mechanism of the Photocoloration of Photochromic Spiropyrans, 20
**Lablache-Combier, A.** *See* Decout, J-L., et al., 309
**Latyshev, A. N., Kushnir, M. A., and Antacanova, L. B.**
The Luminescence of Silver Chloride, 338
**Lee, R. A., and Wilhite, D. L.**
Use of Molecular Orbital Calculations in the Design of Spectral Sensitizing Dyes, 333
**Lee, T. C.** *See* Lin, J. W., et al., 213
**Lin, J. W., and Lee, T. C.**
Diffraction Efficiency of the Thermoplastic-Photoconductor Device for Holographic Recording, 213
**Long, J. W.**
Custom Color Proofs by Photopolymerization for Thermal Transfer Printing on Textiles, 319
**Looney, C.** *See* Dessauer, R., 287
**Loucheux, C.** *See* Decout, J-L., et al., 309
**Loutfy, R. O.** *See* Chang, Y. C., et al., 357
**Malinowski, J.**
The Photographic Process as Photostimulated Phase Formation, 99
**Malkin, Y.** *See* Kuzmin, et al., 20
**Marks, L., Hartmann, G., and Sonnenberg, H.**
Cycle Distribution of Recycled Electrographic Toner, 367
**Martin, T. W.** *See* Sandhu, M. A., et al., 159
**Maternaghan, T. J.** *See* Bangham, O. B., et al., 45
**Matsubara, T.,** *See* Tanaka, T., et al., 118
**Matsumoto, Y.** *See* Nakase, M., et al., 215
**McCartin, P. J.** *See* Hertler, W. R., et al., 297
**McGinniss, V. D.**
Photoactive Catalyst Used in Light Induced Photocuring of Coating Systems, 124
**Mendiratta R. G.** *See* Pillai, P. K. C., et al., 84
**Merrill, J. R.** *See* Hertler, W. R., et al., 297
**Mifune, T.** *See* Tsuda, M., et al., 290
**Mitchell, J. W.**
Concentration Specks and Development Centers, 1
**Moser, F., Ahrenkiel, R. K., and Burkey, B. C.**
Photographic Speed of Solid-State Sensor Arrays, 261
**Mosher, R. A.** *See* O'Reilly, J. M., et al., 314
**Murakami, T.,** *See* Abe, T., 71
**Nacci, G. R.** *See* Hertler, W. R., et al., 297
**Nagata, H.** *See* Tsuda, M., et al., 290
**Nakamura, Y.** *See* Tsuda, M., et al., 290
**Nakane, H.** *See* Kato, M., et al., 207
**Nakane, H.** *See* Tsuda, M., et al., 290
**Nakane, Y.** *See* Tsuda, M., et. al., 290
**Nakase, M. and Matsumoto, Y.**
MTF Evaluation for Optical and Electron-Beam Lithography, 215
**Nakatsui H., and Hishiki, Y.**
Photoconductive Sensitivity and the Temperature Dependence of Decay Time for Dye Sensitized CdS and Dye Sensitized Heavy Cu-doped CdS, 76
**Nebe, W. J.** *See* Hertler, W. R., et al., 297
**Nonogaki, S.** *See* Kohashi, T., et al., 168
**Offner, A.**
Wavelength and Coherence Effects on the Performance of Real Optical Projection Systems, 374
**Oikawa, S.** *See* Tsuda, M., 177
**Oikawa, S.** *See* Tsuda, M., et al., 290
**Okuno, Z., Tanikawa, K., and Hatano, M.**
Electrophotographic Characteristics of PVK/PVK-TNF/TNF-PMG Systems, 362
**Olivares, I. A.** *See* Altland, H. W., et al., 257
**O'Neill, E.** *See* Brouwer, W., et al., 378
**O'Reilly, J. M., Mosher, R. A., and Goffe, W. L.**
Scanned Laser Marking of Metallic and Organic Films, 314
**Ottewill, R. H.** *See* Bangham, O. B., et al., 45
**Pappas, S. P., and Jilek, J. H.**
Photoinitiated Cationic Polymerization by Photosensitization of Onium Salts, 140
**Perry, L. M., and Kurtz, R. L.**
Photopolymer in Holographic Real-Time Fluid Flow Measurement, 175
**Pillai, C. K.** *See* Pillai, P. K. C., et al., 84
**Pillai, P. K. C., Pillai, C. K., and Mendiratta, R. G.**
ZnCdS:(Cu + Ag) Binder Layer for Electrophotography, 84
**Platikanova, V.** *See* Starbova, K., 107
**Reiser, A., and Egerton, P. L.**
The Mechanism of Crosslink Formation in Solid Polyvinylcinnamate and Related Photopolymers, 144
**Rubner, R., Ahne, H., Kuhn, E., and Kolodziej, G.**
A Photopolymer—The Direct Way to Polyimide Patterns, 303
**Rychia, L.** *See* Decker, C., et al., 137
**Saito, M.** *See* Tani, T., et al., 240
**Saito, M.** *See* Tani, T., 323
**Sandhu, M. A., Savage, D. J., and Martin T. W.**
Photoreactive Polyesters with Unusual Thermal Properties: Synthesis, Structure-Property Relationships, and Applications, 159
**Sano, Y.** *See* Tani, T., et al., 240
**Savage, D. J.** *See* Sandhu, M. A., et al., 159
**Schnabel, W.**
Flash Photolysis of Benzoin and Benzophenone Containing Systems, 154
**Shiflett, C. C.**
Characterization of Riston T-193 Photoresist for Use on Selectively Plated Bilevel Circuits, 164
**Smets, G.** *See* Irie, M., et al., 191
**Smith, G. E.** *See* Altland, H. W., et al., 257
**Soller, B. R.** *See* Datta, P., et al., 203
**Sonnenberg, H.** *See* Marks, L., et al., 367
**Starbova, K., and Platikanova, V.**
Decoration of Sensitivity Specks, 107
**Steiger, R.** *See* Junod, P., et al., 266
**Strong, R. W., and Wey, J. S.**
The Growth of AgCl Crystals in Gelatin Solution, 344
**Su-e, W., Hsueh-fu, T., Chieh, W., and Tun, L.**
Variations in Equilibrium Electrode Potential of Sensitivity Centers During Aging of Photographic Emulsions and Their Mechanistic Implications, 341
**Sumi, S.** *See* Iwasaki, T., et al., 17
**Tanaka, T., Matsubara, T., and Hada, H.**
Optical Absorption Studies of the Growth of Microcrystals in Nascent Suspensions: (II) Nucleation of Silver Chloride from Aqueous Solutions, 118
**Tani, T.**
Supersensitization by Hydroxy-tetraazaindenes, 55
**Tani, T., and Saito, M.**
Studies of Mechanism of Sensitization by Hydroxy-tetraazaindenes in Relation to Their Adsorption to AgBr Grains, 323
**Tani, T., Sano, Y., and Saito, M.**
Studies of Supersensitization by Electron Spin Resonance and Dember Photocurrent Measurements, 240
**Tanikawa, K.** *See* Okuno, Z., et al., 362
**Thomas, H. T.** *See* Howe, D. G., et al., 370
**Tomita, Y.** *See* Kohashi, T., et al., 168
**Tsuda, M., and Oikawa, S.**
Theoretical Research on the Initial Stage of Photodecomposition of Aromatic Diazo Compound. II—pDiazoquinone, 177
**Tsuda, M., Nakamura, Y., Oikawa, S., Nagata, H., Yokota, A., Nakane, H., Tsumori, T., Nakane, Y., and Mifune, T.**
Spectrally Sensitized Decomposition of Poly(methyl isopropenyl ketone)-novel Deep UV Resists, 290
**Tsumori, T.** *See* Tsuda, M., et al., 290
**Tsunoda, T.** *See* Yamaoka, T., et al., 196
**Tsunoda, T.**
The Photopolymer Industry in Japan, 172
**Tun, L.** *See* Su-e, W., et al., 341
**van der Hoff, B. M. E., and Azzam, W. R.**
Developability of Silver Bromide Crystals Produced by the Action of Free Radicals, 353
**Van Engeland, J.**
Special Characteristics of Magnetic Brush Development: A Review, 86
**Wey, J. S.** *See* Strong, R. W., 344
**Wilhite, D. L.** *See* Lee, R. A., 333
**Wrobel, J. J.** *See* Howe, D. G., et al., 370
**Yamamoto, Y.** *See* Hayashi, K., et al., 193
**Yamaoka, T., Tsunoda, T., and Goto, Y.**
Crosslinking of Polymers with Irradiating Rh, La X-Ray-Effect of Active Groups and a Heavy Atom on Crosslinking, 196
**Yang, C. C.** *See* Chang, Y. C., et al., 357
**Yokota, A.** *See* Tsuda, M., et al., 290
**Zakhs, E. R.** *See* Kuzmin, et al., 20
**Zavracky, P.** *See* Brouwer, W., et al., 378